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the Third International Conference
on the Peaceful Uses of Atomic Energy**

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EXPLANATORY NOTE

The Proceedings of the Third International Conference on the Peaceful Uses of Atomic Energy are published in a single multilingual edition of sixteen volumes.

The first fifteen volumes contain (a) the 739 papers actually presented at the Conference, each printed in the original language of submission and followed by an abstract in the other three languages of the Conference;* and (b) the records, in all four languages, of the discussions which took place at the various sessions making up the Conference Programme. Volume 1 contains also some other material, largely of a formal nature, which is published in the language of submission or oral delivery, followed in the case of French, Russian or Spanish originals by an English translation.

The present volume is intended to serve as a guide to the papers and discussions. It comprises the following indexes and lists:

- Numerical index of papers;
- Author index;
- Index of speakers at discussions;
- Subject index;
- Index of papers by submitting country or organization;
- Contents of the Proceedings.

Detailed explanations for each of the above are given below.

NUMERICAL INDEX OF PAPERS

This index lists the individual papers serially, omitting those which were withdrawn by Governments before the Conference, or never actually submitted for other reasons. The title of each paper is given in the language of publication, followed, where appropriate, by an English translation. The names of authors are also listed (both in Russian and transliterated into English according to United Nations rules in the case of papers published in Russian), as well as the volume of the Proceedings in which the paper is to be found, with the corresponding page number.

AUTHOR INDEX

This index lists, alphabetically, *all* authors of Conference papers, followed by the serial number of the corresponding papers and the volume to

* The languages of the Conference were English, French, Russian and Spanish.

which they were assigned. Names of the authors of papers published in Russian are given in their transliterated English form.

For papers with no personal author(s), the index gives the originating country and abbreviated corporate author, or in one case the abbreviation for a United Nations agency as shown below:

ILO	International Labour Office
Australia AEC/DND	Australia, Atomic Energy Commission, Department of National Development
Gabon DM	Gabon, Direction des mines
Japan AEC	Japan, Atomic Energy Commission
Japan AFC	Japan, Atomic Fuel Corporation

INDEX OF SPEAKERS AT DISCUSSIONS

This index lists all participants who are on record as having taken part in the discussion of papers at the various sessions, the names being transliterated into English where appropriate, and followed by the name of the country of the speaker or that of the organization which he represented, the symbol of the session at which he spoke and the volume in which the record of that session appears.

SUBJECT INDEX

This keyword index has been prepared by a mechanized method currently used for indexing scientific documents, abstracts, etc. Keywords are taken *only from the titles* of papers. Each significant word in a title is used as a keyword and has its appropriate entry in the index. Each title is listed once for each keyword, and therefore appears as many times as the number of keywords it contains. To the right of each entry is the serial number of the paper. This directs the user to the numerical index, where he will find more complete information about the paper.

Owing to the methods used for its compilation, it has been possible to produce this index *only in English*.

INDEX OF PAPERS BY SUBMITTING COUNTRY OR ORGANIZATION

In this index all papers are grouped by originating country or by specialized or related United Nations agency; within each group, they are listed in numerical order.

CONTENTS OF THE PROCEEDINGS

This section lists, *in English only* and in some detail, the material included in the sixteen volumes of the Proceedings. The serial numbers of all published papers are again given, under headings and sub-headings which are essentially those of the Conference Programme.

ABBREVIATIONS FOR ORGANIZATIONS OF THE UNITED NATIONS FAMILY

The following abbreviations are used in the present volume, in particular in the "Index of

speakers at discussions" and "Index of papers by submitting country or organization":

UN	United Nations
ILO	International Labour Organisation
FAO	Food and Agriculture Organization of the United Nations
WHO	World Health Organization
WMO	World Meteorological Organization
IMCO	Inter-Governmental Maritime Consultative Organization
IAEA	International Atomic Energy Agency

NOTE EXPLICATIVE

Les Actes de la troisième Conférence internationale sur l'utilisation de l'énergie atomique à des fins pacifiques sont publiés sous la forme d'une édition unique, multilingue, de seize volumes.

Les quinze premiers volumes contiennent: *a* les 739 mémoires effectivement présentés à la Conférence, chacun d'eux étant reproduit dans la langue originale dans laquelle il a été soumis, et suivi d'un résumé dans les trois autres langues de la Conférence*; et *b* les comptes rendus, dans les quatre langues, des discussions qui ont eu lieu lors des diverses séances composant le programme de la Conférence. Le volume 1 contient aussi certains autres textes, pour la plupart de caractère non technique, qui sont publiés dans la langue dans laquelle ils ont été présentés par écrit ou oralement, et sont suivis, lorsque cette langue est l'espagnol, le français ou le russe, d'une traduction en anglais.

Le présent volume est destiné à faciliter la lecture des mémoires et discussions. Il comprend les index et listes ci-après:

- Index numérique des mémoires;
- Index des auteurs;
- Index des participants aux discussions;
- Index des matières;
- Index des mémoires par pays ou organisation;
- Table des matières des Actes.

On trouvera ci-dessous des indications détaillées concernant ces diverses parties.

INDEX NUMÉRIQUE DES MÉMOIRES

Cet index donne les mémoires par ordre numérique, à l'exclusion de ceux qui ont été retirés par les gouvernements avant la Conférence ou n'ont jamais été effectivement présentés pour d'autres raisons. Le titre de chaque mémoire est donné dans la langue de publication; il est suivi, le cas échéant, d'une traduction en anglais. L'index donne aussi les noms des auteurs (à la fois en russe et translittérés en anglais selon les règles de l'ONU dans le cas des mémoires publiés en russe), ainsi que le volume des Actes dans lequel figure chaque mémoire avec l'indication de la page correspondante.

INDEX DES AUTEURS

Cet index donne par ordre alphabétique *tous* les auteurs des mémoires présentés à la Conférence,

* Les langues de la Conférence étaient l'anglais, l'espagnol, le français et le russe.

suivis du numéro d'ordre des mémoires correspondants et de l'indication du volume dans lequel ceux-ci figurent. Les noms des auteurs de mémoires publiés en russe sont donnés en translittération anglaise.

Pour certains mémoires, l'auteur indiqué est un organisme; l'index donne alors le pays d'origine et une abréviation du nom de l'organisme en question, ou dans un cas le sigle d'une institution des Nations Unies, selon la liste ci-après :

ILO	Bureau international du Travail
Australia AEC/DND	Australie, Atomic Energy Commission, Department of National Development
Gabon DM	Gabon, Direction des mines
Japan AEC	Japon, Atomic Energy Commission
Japan AFC	Japon, Atomic Fuel Corporation.

INDEX DES PARTICIPANTS AUX DISCUSSIONS

Cet index comprend les noms de tous ceux qui figurent dans les comptes rendus comme ayant participé à la discussion de mémoires lors des diverses séances; ces noms sont translittérés en anglais, le cas échéant, et sont suivis du nom du pays auquel appartient l'orateur ou du nom de l'organisation qu'il a représentée, du symbole de la séance à laquelle il a parlé et du volume dans lequel apparaît le compte rendu de la séance en question.

INDEX DES MATIÈRES

Cet index, fondé sur des mots clés, a été établi par une méthode mécanisée actuellement en usage pour l'indexation de documents scientifiques, résumés, etc. Les mots clés sont pris *uniquement dans les titres* des mémoires. Chaque mot significatif d'un titre constitue un mot clé et se retrouve à sa place alphabétique dans l'index. Chaque titre figure sous chacun des mots clés qu'il contient et apparaît donc autant de fois qu'il comprend de mots clés. A la droite de chaque titre de mémoire apparaît le numéro d'ordre du mémoire. Le lecteur peut ainsi se reporter à l'index numérique, où il trouvera des indications plus détaillées concernant le mémoire en question.

En raison de la méthode employée pour son établissement, cet index est publié *en anglais seulement*.

INDEX DES MÉMOIRES PAR PAYS OU ORGANISATION

Dans cet index tous les mémoires sont groupés selon le pays ou l'organisme des Nations Unies qui les a présentés; dans chaque groupe ils sont rangés par ordre numérique.

TABLE DES MATIÈRES DES ACTES

Dans cette partie on trouve une énumération assez détaillée, *en anglais seulement*, du contenu des seize volumes des Actes. Tous les mémoires publiés y sont indiqués par leur numéro d'ordre, sous des titres et sous-titres qui sont en grande partie ceux du programme de la Conférence.

ABRÉVIATIONS D'ORGANISATIONS DU SYSTÈME DES NATIONS UNIES

Les abréviations suivantes sont employées dans le

présent volume, en particulier dans l'« Index des participants aux discussions » et l'« Index des mémoires par pays ou organisation » :

UN	Organisation des Nations Unies
ILO	Organisation internationale du Travail
FAO	Organisation des Nations Unies pour l'alimentation et l'agriculture
WHO	Organisation mondiale de la santé
WMO	Organisation météorologique mondiale
IMCO	Organisation intergouvernementale consultative de la navigation maritime
IAEA	Agence internationale de l'énergie atomique

ПОЯСНИТЕЛЬНАЯ ЗАПИСКА

Труды третьей Международной конференции по использованию атомной энергии в мирных целях опубликованы единым многоязычным изданием из 16 томов.

Первые пятнадцать томов состоят из: а) 739 докладов, фактически представленных на Конференции; каждый из них отпечатан на языке оригинала и сопровождается аннотацией на трех других языках Конференции *; б) протоколов дискуссий на всех четырех заседаниях, входивших в программу Конференции. В томе 1 содержится также некоторый другой материал, преимущественно нетехнического характера, который публикуется на языке оригинала или устного выступления, причем оригиналы на французском, русском и испанском языках сопровождаются английским переводом.

Настоящий том должен служить справочником по докладам и дискуссиям. В него входят следующие указатели и перечни:

цифровой указатель докладов;
авторский указатель;
указатель выступавших в прениях;
тематический указатель;
указатель докладов по странам или организациям;
содержание трудов Конференции.

Подробное объяснение каждого из вышеприведенных указателей дается ниже.

ЦИФРОВОЙ УКАЗАТЕЛЬ ДОКЛАДОВ

В этом указателе перечислены отдельные доклады посерийно, за исключением тех, которые были взяты правительствами обратно до начала Конференции или фактически никогда не были представлены по другим причинам. Название каждого доклада дается на языке публикации, в сопровождении, там, где это необходимо, английского перевода. Приводятся также фамилии авторов (на русском языке и в транслитерации на английский язык в соответствии с правилами Организации Объединенных Наций — в отношении докладов, изданных на русском языке) и том

* Языками Конференции являлись: английский, французский, русский и испанский.

трудов Конференции, в котором следует искать данный доклад, с соответствующим указанием страницы.

АВТОРСКИЙ УКАЗАТЕЛЬ

В этом указателе перечисляются в алфавитном порядке **все** авторы докладов Конференции наряду с серийными номерами соответствующих докладов и томом, в котором они находятся. Фамилии авторов докладов, опубликованных на русском языке, даются в транслитерированной английской форме.

Для докладов, не имеющих индивидуального автора или авторов, в указателе приведены представившая доклад страна и сокращенное наименование коллективного автора, а в одном случае, сокращение названия учреждения Организации Объединенных Наций, как показано ниже:

ILO	Международное бюро труда
Australia AEC/DND	Австралия, Комиссия по атомной энергии, Отдел национального развития
Gabon DM	Габон, Управление горнодобывающей промышленности
Japan AEC	Япония, Комиссия по атомной энергии
Japan AFC	Япония, фирма "Атомик Фьюэл"

УКАЗАТЕЛЬ ВЫСТУПАВШИХ В ПРЕНИЯХ

В этом указателе перечисляются все участники, зарегистрированные как принимавшие участие в обсуждении докладов на различных заседаниях, причем там, где это необходимо, фамилии транслитерированы на английский язык, и сопровождаются указанием страны оратора или организации, которую он представляет, символа заседания, на котором он выступал, и тома, в котором содержится протокол этого заседания.

ТЕМАТИЧЕСКИЙ УКАЗАТЕЛЬ

Этот указатель слов-ключей подготовлен с помощью механизированного метода, обычно применяемого для индексации научных документов, аннотаций и т. д. Слова-ключи берутся **лишь из заглавий докладов**. Каждое значимое слово в заглавии используется в

качестве слова-ключа и имеет свое соответствующее место в указателе. Каждое заглавие упоминается один раз для каждого слова-ключа и поэтому появляется столько раз, сколько в нем содержится слов-ключей. Вправо от каждой записи в указателе приводится серийный номер доклада. Это отсылает читателя к цифровому указателю, где он найдет более полную информацию об этом докладе.

Методы, которые были использованы для составления указателя, обусловили тот факт, что этот указатель мог быть издан **только на английском языке**.

УКАЗАТЕЛЬ ДОКЛАДОВ ПО СТРАНАМ ИЛИ ОРГАНИЗАЦИЯМ

В этом указателе все доклады сгруппированы по представившим их странам или по специализированным или другим связанным с Организацией Объединенных Наций учреждениям; внутри каждой группы они приводятся в цифровом порядке.

СОДЕРЖАНИЕ ТРУДОВ КОНФЕРЕНЦИИ

В этом разделе перечисляются **только на английском языке** и с некоторыми подробностями материалы, включенные в шестнад-

цать томов трудов Конференции. Вновь даются серийные номера всех опубликованных докладов под заголовками и подзаголовками, которые в основном являются теми же, что и в программе Конференции.

СОКРАЩЕНИЯ НАЗВАНИЙ ОРГАНИЗАЦИЙ СИСТЕМЫ ООН

В настоящем томе, особенно в «указателе выступавших в прениях» и «указателе докладов по странам или организациям», использованы следующие сокращения:

UN	.....	Организация Объединенных Наций
ILO	.....	Международная организация труда
FAO	.....	Продовольственная и сельскохозяйственная организация Объединенных Наций
WHO	.....	Всемирная организация здравоохранения
WMO	.....	Всемирная метеорологическая организация
IMCO	.....	Межправительственная морская консультативная организация
IAEA	.....	Международное агентство по атомной энергии

NOTA EXPLICATIVA

Las Actas de la tercera Conferencia Internacional sobre la Utilización de la Energía Atómica con Fines Pacíficos se publican en una sola edición plurlingüe que consta de dieciséis volúmenes.

Los quince primeros volúmenes contienen: *a)* las 739 memorias presentadas realmente a la Conferencia, cada una de las cuales figura en el idioma original y va seguida de un resumen en los otros tres idiomas de la Conferencia*; y *b)* las actas, en los cuatro idiomas, de las discusiones celebradas en las distintas sesiones integrantes del programa de la Conferencia. El volumen 1 contiene también otro material, en su mayor parte desprovisto de carácter técnico, que se publica en el idioma en que se presentó, ya sea por escrito o verbalmente, junto con la traducción al inglés en el caso de los originales españoles, franceses o rusos.

El presente volumen está destinado a facilitar la lectura de las memorias y discusiones. Comprende los índices y listas siguientes:

- Índice numérico de memorias;
- Índice de autores;
- Índice de participantes en las discusiones;
- Índice de temas;
- Índice de memorias por países u organizaciones;
- Índice de las Actas.

A continuación se dan explicaciones detalladas respecto de cada uno de estos epígrafes.

INDICE NUMERICO DE MEMORIAS

Este índice contiene las memorias por el orden numérico, omitiendo las que fueron retiradas por sus gobiernos respectivos antes de la celebración de la Conferencia o que, por otras razones, no fueron presentadas. El título de cada memoria se da en el idioma de publicación, seguido, en su caso, de una traducción al inglés. El índice contiene asimismo los nombres de los autores (tanto en ruso como en su transliteración al inglés, con arreglo a las normas de las Naciones Unidas, en el caso de las memorias publicadas en ruso) con la indicación del volumen de las Actas en que figura cada memoria y de la página correspondiente.

INDICE DE AUTORES

Este índice contiene, por orden alfabético, *todos*

* Los idiomas de la Conferencia fueron el español, el francés, el inglés y el ruso.

los autores de memorias presentadas a la Conferencia, juntamente con la signatura de las memorias correspondientes y el volumen en que figuran. Los nombres de los autores de memorias publicadas en ruso se dan en su transliteración al inglés.

Para algunas memorias se indica como autor un organismo. En ese caso, el índice señala el país de origen y la abreviatura del organismo o, en el caso de un organismo de las Naciones Unidas, una de las abreviaturas que se indican a continuación.

ILO	Oficina Internacional del Trabajo
Australia AEC/DND	Australia, Atomic Energy Commission, Department of National Development
Gabon DM	Gabón, Direction des Mines
Japan AEC	Japón, Atomic Energy Commission
Japan AFC	Japón, Atomic Fuel Corporation

INDICE DE PARTICIPANTES EN LAS DISCUSIONES

En este índice figuran todos los participantes que, según se indica en las actas, intervinieron en la discusión de memorias en las distintas sesiones, con la transliteración al inglés en los casos pertinentes, y el nombre del país del orador o el de la organización que éste representaba, la signatura de la sesión en que hizo uso de la palabra y el volumen que contiene el acta de esa sesión.

INDICE DE TEMAS

Este índice, basado en las palabras clave, ha sido preparado por un método mecánico actualmente utilizado para hacer los índices de los documentos científicos, resúmenes, etc. Las palabras clave se toman *únicamente de los títulos* de las memorias. Cada palabra importante del título se usa como clave y figura en su lugar correspondiente en el índice. Cada título se enumera tantas veces como palabras clave contiene, y en consecuencia figura varias veces en el índice. A la derecha de cada artículo figura la signatura de la memoria correspondiente. De este modo se remite al índice numérico, en donde el lector podrá encontrar una información más completa sobre la memoria.

Debido al método seguido para su compilación, este índice se publica únicamente en inglés.

INDICE DE MEMORIAS POR PAISES U ORGANIZACIONES

En este índice, todas las memorias han sido agrupadas según el país o el organismo de las Naciones Unidas que las ha presentado; dentro de cada grupo, las memorias figuran por orden numérico.

INDICE DE LAS ACTAS

En esta sección se enumera, *en inglés únicamente* y con algún detalle, el material que figura en los dieciséis volúmenes de las Actas. Las firmas de todos los documentos publicados constan también según títulos y subtítulos, que fundamentalmente son los del programa de la Conferencia.

ABREVIATURAS DE LAS ORGANIZACIONES DEL SISTEMA DE LAS NACIONES UNIDAS

En el presente volumen, en particular en el "Índice de participantes en las discusiones" y en el "Índice de memorias por países u organizaciones", se utilizan las abreviaturas siguientes:

UN	Naciones Unidas
ILO	Organización Internacional del Trabajo
FAO	Organización de las Naciones Unidas para la Agricultura y la Alimentación
WHO	Organización Mundial de la Salud
WMO	Organización Meteorológica Mundial
IMCO	Organización Consultiva Marítima Intergubernamental
IAEA	Organismo Internacional de Energía Atómica

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	178	4	Hurst, D. G.	2	7
Hughes, J. W.	147	10	Hustache, J.	94	8
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Mouille, N.	46	6	Murgatroyd, W.	564	2
Moulokhia, K.	811	14	Murogov, V. M.	369	6
Moussez, C.	95	8	Murphy, P. D.	124	5
Moustgaard, J.	876	15	Musifek, F.	531	7
Muir, C. W. A.	836	12	Muskhelishvili, G. N.	388	12
Mukae, M.	846	3	Mussari, G.	731	1
Mukaiyama, T.	653	2	Mustelier, J. P.	58	10
Mukhamedov, D. M.	877	5		62	11
Mukhina, G. V.	376	4	Muylle, R.	518	8
Mukhortov, N. F.	350	9	Muysken, M.	588	6
Mukhortov, V. S.	376	4	Myers, H. P.	419	9
Müller, A.	539	6		420	9
Müller, H. W.	549	1		608	10
Müller, P.	450	12	Myshkin, V. A.	342	9

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Nadzhakov, G.	879	15	Nevnitsa, A. I.	359	3
Nagami, H.	430	9	Nevsky, V. P.	308	6
Nagaraja Rao, S.	753	12	Nevzorov, B. A.	343	9
Nagels, P.	444	11	Nichols, J. W. de Lisle	161	10
Nahorniak, V.	673	2	Nicholson, R. B.	284	13
Nairn, J. S.	149	10	Nicosia, S.	871	5
Naito, K.	430	9	Nightingale, R. E.	254	9
Nakayama, T.	845	3	Nijs, W. W.	725	7
Nakayama, Y.	437	14	Nikitin, A. V.	377	4
Namboodiri, M. N.	787	10	Nikolaev, M. N.	357	2
Nancollas, G. H.	562	10		368	6
Nápravník, J.	775	14	Nikolaev, N. N.	877	5
Nardi, E.	666	3	Nikolaev, S. K.	324	7
Nasjleti, E. V.	715	1	Nikolaev, Y. G.	321	7
Näslund, G.	683	3		323	7
Naudet, R.	39	5		380	13
	74	2	Nikolaev, Y. V.	388	12
	76	3	Nikolaishvili, Sh. S.	363	2
Naumov, V. A.	718	7	Nikolotova, Z. I.	346	10
	721	4	Nikolsky, Y. V.	358	3
Navalkar, M. P.	785	9	Nikulin, M. P.	312	6
Naylor, A.	160	10	Nilson, R.	603	6
Naymark, S.	233	11	Nilsson, S.	416	9
Nazarchuk, M. M.	615	7	Nims, J. B.	259	6
Nazzer, D. B.	18	10	Nininger, R. D.	257	12
	23	9	Nishigaki, S.	799	9
Neal, S. B. H. C.	136	8	Nishio, C.	439	12
Nechaev, Y. A.	362	3	Nisle, R. G.	269	3
	873	15	Nitc, W.	488	7
Nedelyaev, A. T.	350	9	Noc, B.	75	3
Neel, L.	92	15	Nollet, P.	61	11
Neganov, V. I.	378	13	Nomaguchi, M.	432	9
Negrini, R.	552	8	Nomofilov, E. V.	328	8
	865	5	Nomura, S.	857	8
Neimark, L. A.	240	11	Norinder, O.	685	4
Nekrasov, A. M.	316	1	Nosov, V. I.	362	3
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Nelson, B.	608	10	Novick, M.	215	6
Neltrup, H.	711	3	Novikov, A. G.	366	2
Němec, J.	522	8	Novikov, A. N.	585	3
Nemirovsky, A. M.	346	10	Novikov, P. D.	313	6
Neprašová, M.	630	3	Novozhilov, A. I.	369	6
Nesmeyanova, G. M.	353	12	Nozawa, R.	120	7
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Oger, C.	98	11		357	2
Ogura, S.	846	3		364	4
Ohashi, S.	799	9		377	4
Ohno, T.	430	9		381	13
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Streel, A. de	442	10	Suvorov, A. P.	357	2
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Strickland, G.	250	10	Suzuki, S.	439	12
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Šulc, P.	833	5	Szawlewicz, S. A.	232	8
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Sumner, H. M.	172	2	Szilágyi, M.	784	14
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Takahashi, S.	843	11	Tilbe, H. E.	130	6
Takamatsu, T.	433	12	Timis, P.	673	2
Takao, Z.	438	13	Timoshev, V. G.	347	10
Takashima, A.	843	11	Titov, V. F.	877	5
Takashima, Y.	440	12	Tobin, J. C.	242	9
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